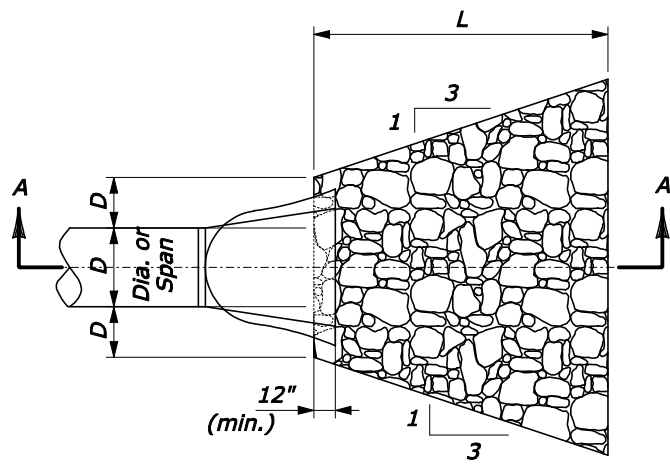
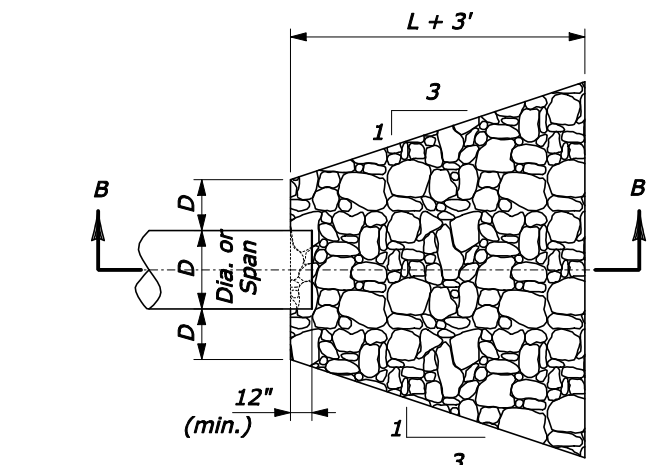


REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

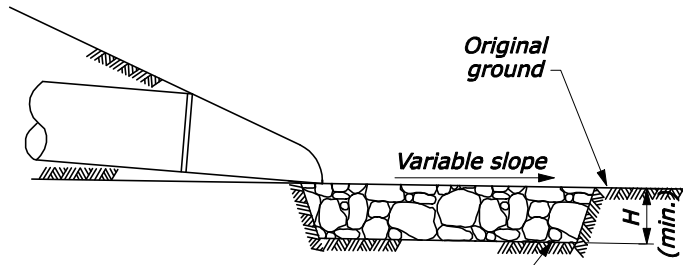
- NOTE:**
- Excavation for placement of riprap will not be measured for payment.
  - Furnish geotextile conforming to subsection 714.01 (a), type IV-E.



PLAN VIEW

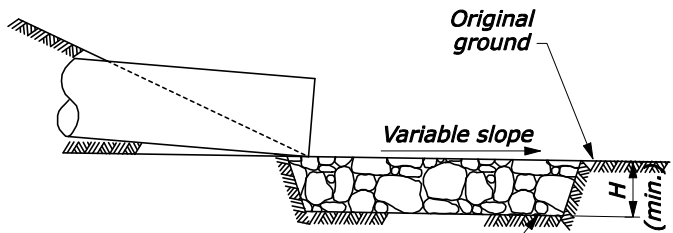


PLAN VIEW



SECTION A-A

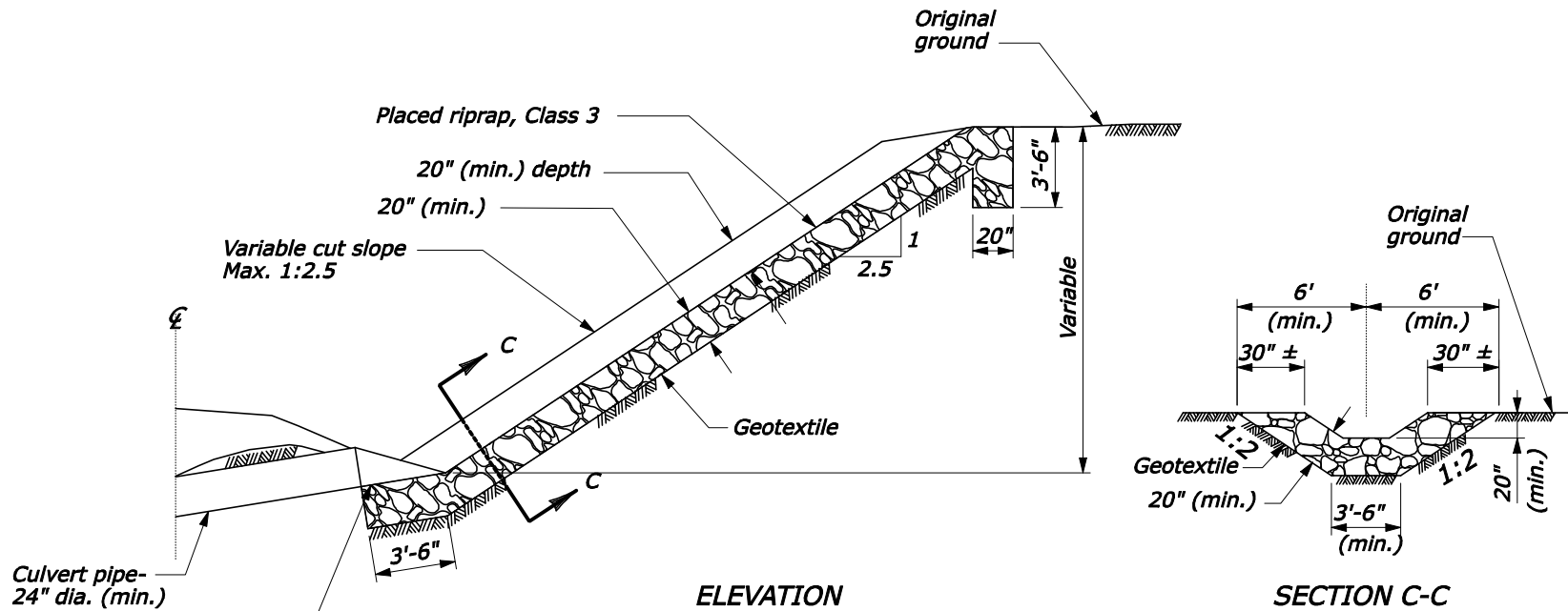
CULVERT WITH STANDARD  
END SECTION



SECTION B-B

CULVERT WITHOUT STANDARD  
END SECTION

**PROTECTIVE APRON AT CULVERT OUTLET**



ELEVATION

SECTION C-C

**RIPRAP RUNDOWN IN CUT ( $Q_{max} = 17.7$  cfs)**

APRON TYPE	CLASS RIPRAP	LENGTH OF APRON L (FEET)	DEPTH OF APRON H (FEET)
1	2	4 x D	1.5
2	3	5 x D	2.0
3	4	6 x D	2.5

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

**PLACED RIPRAP  
AT CULVERTS**

DETAIL APPROVED FOR USE 07/2004

REVISED:

DETAIL

C251-50

NO SCALE